

**Abstract**

Systems and methods stimulate circulatory activity in a targeted body region of an individual by applying ultrasound energy. Before, during or after the application of ultrasound energy, the systems and methods administer an agent to individual that results, e.g., in an angiogenic effect, or in a reduction of blood perfusion, or a chemotherapy effect. The application of ultrasound energy selectively increases blood perfusion or uptake of the agent in the targeted body region.

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